201810 Hurricane Michael Data Sources

Geospatial Information and Remotely Sensed Imagery Products

October-24-2018

Catalog Info

Hazards Data Distribution System (HDDS)
Select Event: '201810_Hurricane_Michael' -> click on '+' and then 'Search'
Download Shapefiles for image footprints
https://hddsexplorer.usgs.gov/data/list/disaster/201810_Hurricane_Michael/shapefiles/index
More information about HDDS: http://hdds.usgs.gov/hazards-data-distribution-system-hdds

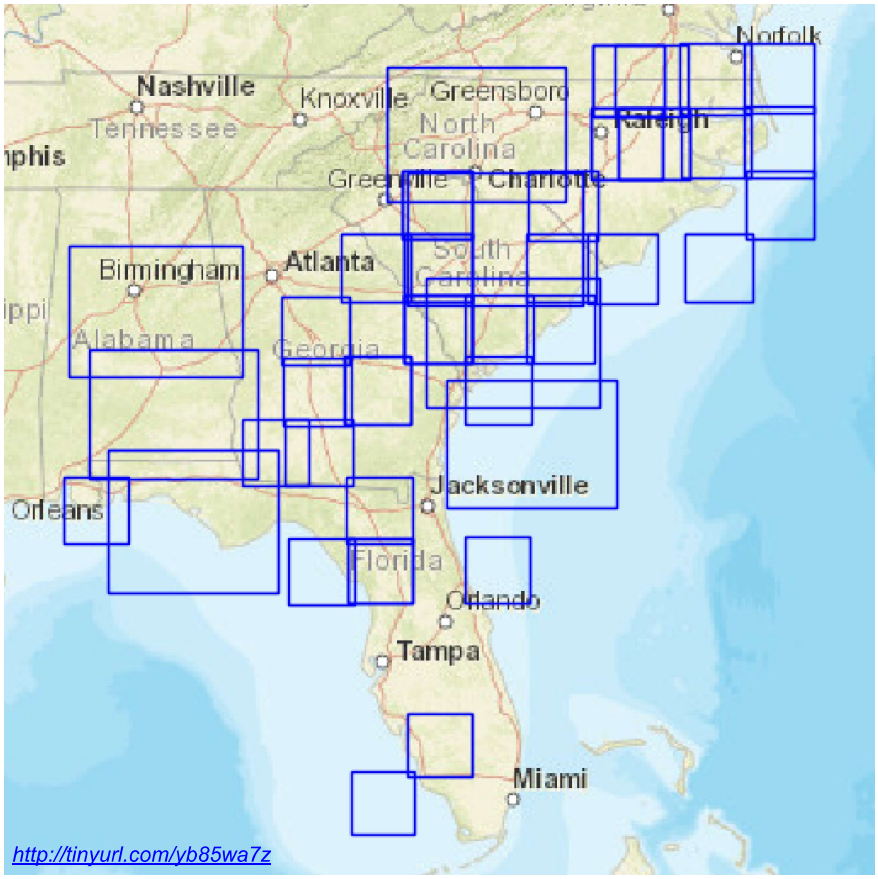
HDDS Emergency Operations - Collection Management Tool *(area of interest for disaster imagery collections) Request new disaster related imagery here.*
http://cmt.usgs.gov/

NOTE: We have changed the method for symbology of the image footprints.

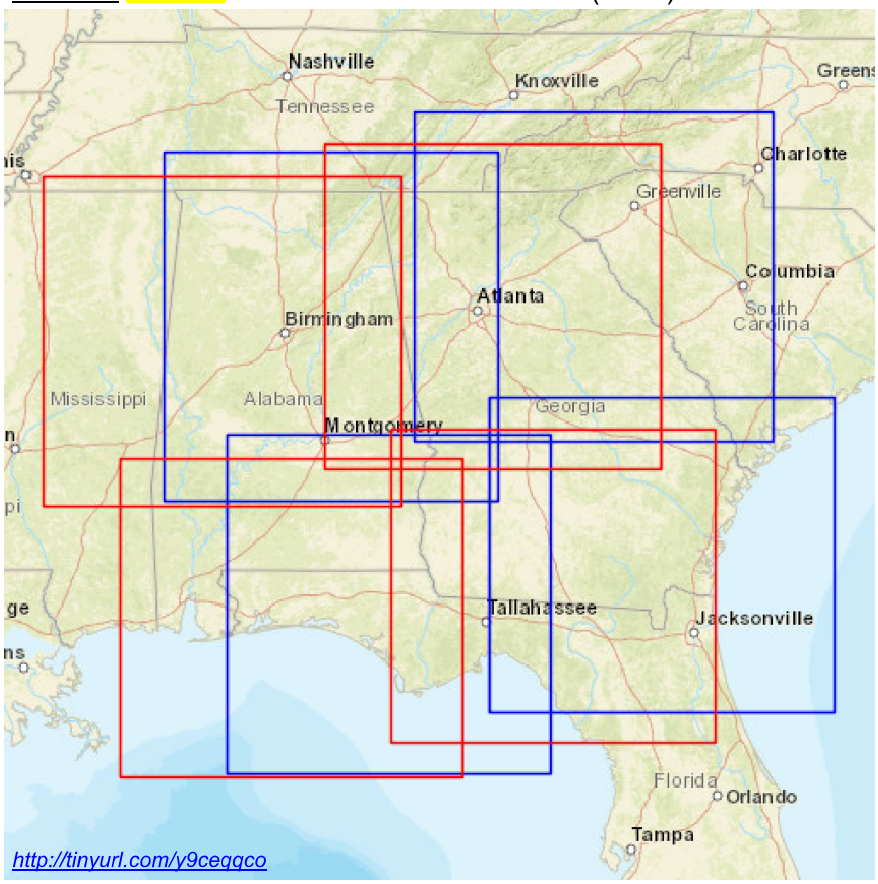
We now highlight new image footprints as red or blue, where red reflects the newest footprints from the last 48 hours and blue reflects footprints from the last 7 days.

- New foorprints from the past 48 hours
- Footprints from the last 7 days

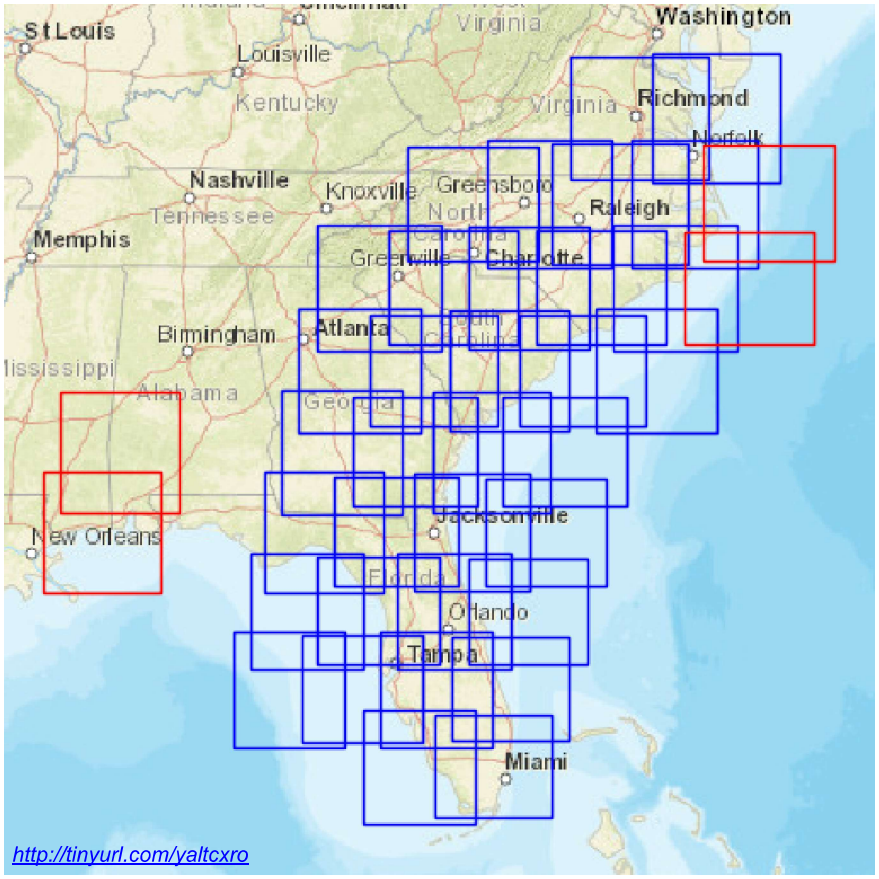
Platform: ***SENTINEL*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: ***UKDMC*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: ***LANDSAT*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: ***AERIAL*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)

Platform: ***REPORTS*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)

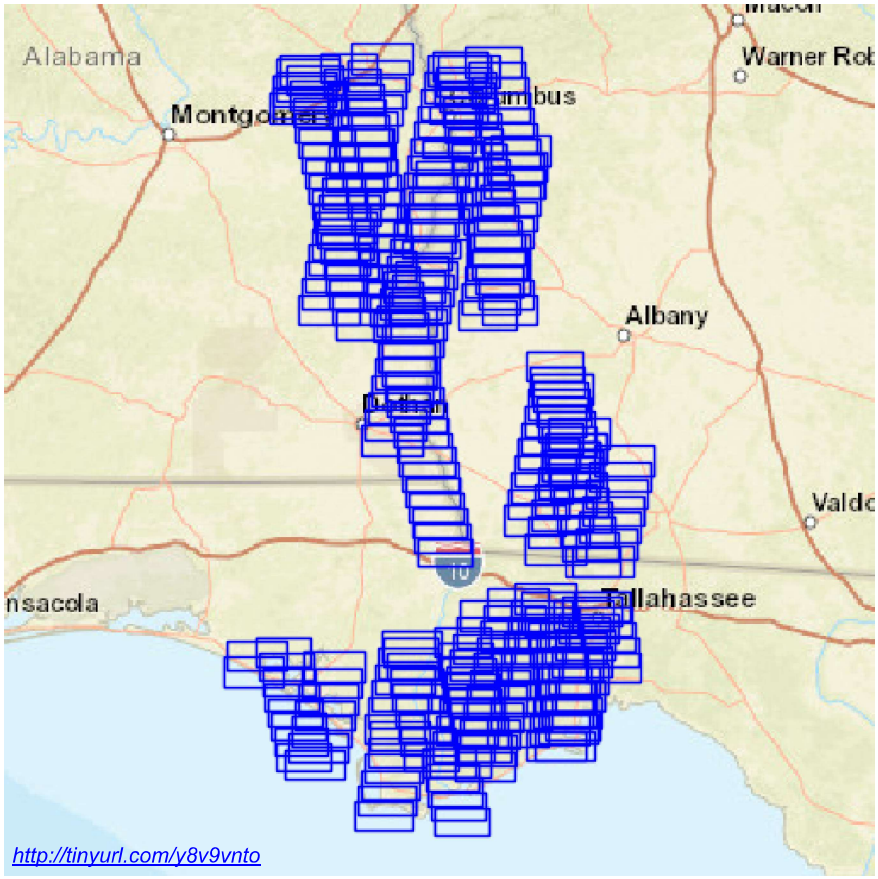
HDDS Restricted

If you have not registered on either EarthExplorer or HDDS, click the register button in the top right corner of the screen and go thru the registration process. Once registered, you will have access to EarthExplorer and HDDS download capabilities. The first time you attempt to download restricted imagery, you will need to fill out an access request form for that event. Click on 'Access' (upper right of HDDS screen), then select 'To request access to restricted data click here'. Select event from menu. Once granted access, you can download restricted imagery. (note: in most cases the restricted area contains licensed imagery, not all requests can be granted.)

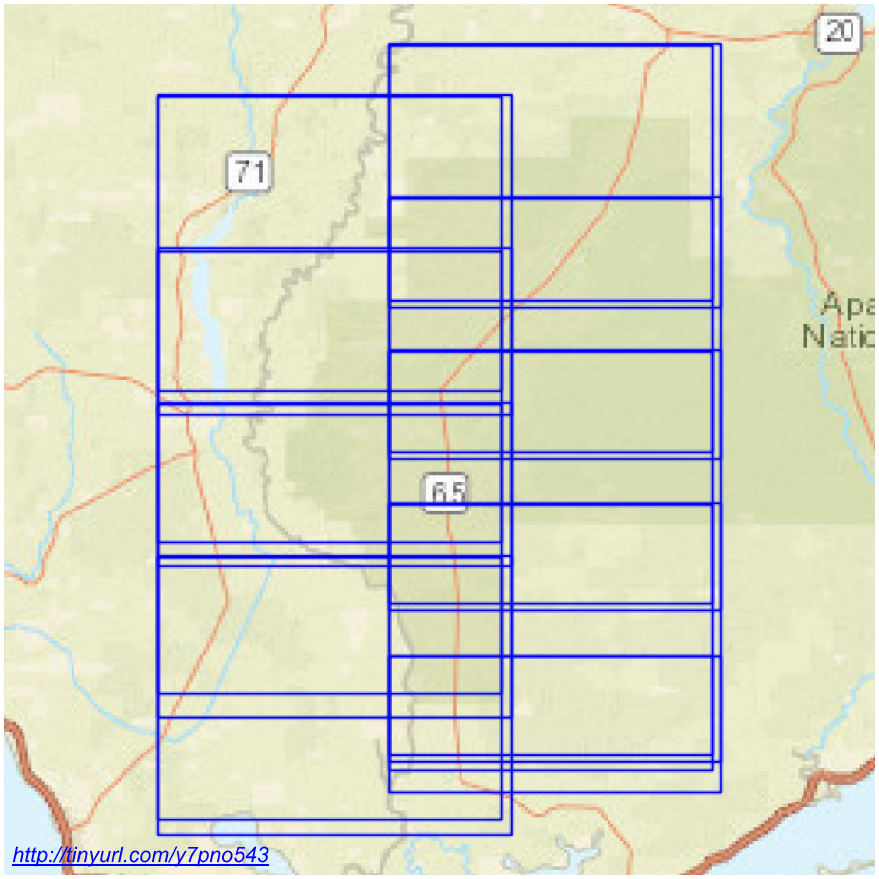
Request access:

https://hddsexplorer.usgs.gov/access/request?event=201810_Hurricane_Michael

Platform: ***PLANET*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



Platform: ***WORLDVIEW*** scenes from the last 48 hours (in red) and from the last 7 days (in blue)



End HDDS

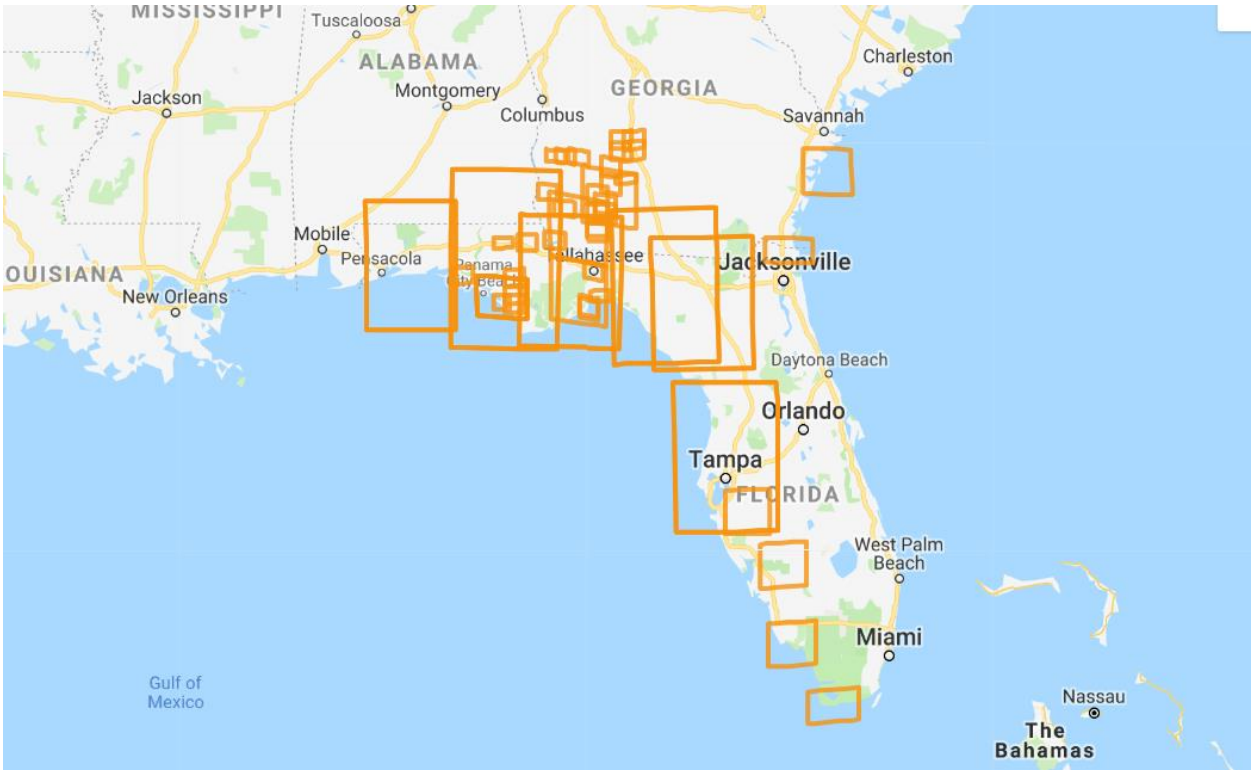
Digital Globe Imagery

Digital Globe imagery is available orthorectified in the NGA funded EnhancedView Web Service. Users with .gov or.mil emails can self-register. https://evwhs.digitalglobe.com/myDigitalGlobe/

Update: *Digital Globe Footprint Viewer (usually pictured here) is currently down, but updated data can still be downloaded from the site as usual.*

Eagle Vision

http://dev.evr2est.us/scenes/table and http://evr2est.us/



Additional map services and journals:

NICB GIC GraySky 2018 Michael Nadir Imagery
More Tiles Added:
Webmap:
https://geoplatform.maps.arcgis.com/home/item.html?id=b523236edaf145c49c70cc1874d38721
Gallery:
https://geoplatform.maps.arcgis.com/apps/MinimalGallery/index.html?appid=1c05cb9787864552b797c1d7c306034f
Swipe App:
https://geoplatform.maps.arcgis.com/apps/StorytellingSwipe/index.html?appid=18bab2f5a1dd45739736e6ae24de31d8

https://maps.geointel.org/app/gic-public/
https://maps.geointel.org/app/michael/

publicly accessible web map:
https://geoplatform.maps.arcgis.com/home/item.html?id=b523236edaf145c49c70cc1874d38721

And in this app gallery:
https://geoplatform.maps.arcgis.com/apps/MinimalGallery/index.html?appid=1c05cb9787864552b797c1d7c306034f

public tile services are being generated from this data.

- Chattahoochee to Thomasville
  https://geoplatform.maps.arcgis.com/home/item.html?id=0633f49348d74d6aa4b5d8ca124e7373
  - Mexico Beach to Port St Joe
    https://geoplatform.maps.arcgis.com/home/item.html?id=7b05b7709e224a97981628f35ef83fed
  - Orthophoto image of Donalsonville to Moulterie -
    https://geoplatform.maps.arcgis.com/home/item.html?id=324adadd746247628741b9b46ea79b56
  - Apalachicola to Panacea
    https://geoplatform.maps.arcgis.com/home/item.html?id=ae7b082019094e7b945bfa03a3d4e015
- Pensacola to Panama City -
  https://geoplatform.maps.arcgis.com/home/item.html?id=96232b9b743746578622d9f90aac2dca
- South Pensacola -
  https://geoplatform.maps.arcgis.com/home/item.html?id=a2647f42402f42e5ba473a7af40b0feb
- West Tallahassee -
  https://geoplatform.maps.arcgis.com/home/item.html?id=8cae25ec13a840b283b1e349c75059f1
  - Perry to Ingles
    https://geoplatform.maps.arcgis.com/home/item.html?id=eda4377ba3894101bf2ff83338077d0a
  - East of Panama City
    https://geoplatform.maps.arcgis.com/home/item.html?id=13435d0c0133405e873fa2d541388fdd
  - Pensacola to Panama City
    https://geoplatform.maps.arcgis.com/home/item.html?id=3f67ef5795364183b6ba5cae86015714
  - Laguna Beach To Lower Grand Lagoon
    https://geoplatform.maps.arcgis.com/home/item.html?id=2e2353f6dbf24103b87f57d3bacacb9f

Google Crisis Map for Michael

Please see the latest version of the Google Crisis Map for Hurricane Michael:
http://google.org/crisismap/google.com/2018-michael

Data is provided for public use in support of Crisis Response missions. "Google, Inc. 2018" should be cited for attribution purposes.
Web Map Tile Paths:

https://storage.googleapis.com/ga_moultrie_20181014/{Z}/{X}/{Y}
https://storage.googleapis.com/ga_albany_hurricane_20181013/{Z}/{X}/{Y}
https://storage.googleapis.com/fl_apalachicola_20181013/{Z}/{X}/{Y}
https://storage.googleapis.com/fl_tallahassee_2_20181012/{Z}/{X}/{Y}
https://storage.googleapis.com/fl_panamacity_20181012/{Z}/{X}/{Y}
https://storage.googleapis.com/ga_bainbridge_20181014/{Z}/{X}/{Y}

UAS / drone images

*The Hangar 360 panoramic photos may be especially helpful for briefing teams if you can get this up on a big screen before they head out. Source: Justin Adams (*jadams@crasar.org)
https://www.arcgis.com/home/webmap/viewer.html?webmap=d6076b5dd7074072aa9a38314364fee5
Mexico Beach:
https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018_Michael_Mexico_Beach_B1_Orthomosaic/MapServer
https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018_Michael_Mexico_Beach_C2_Orthomosaic/MapServer
https://tiles.arcgis.com/tiles/36ruPEqsYhRhaWdn/arcgis/rest/services/2018__Michael_Mexico_Beach_E2_Orthomosaic/MapServer

USGS Flood Event Viewer

https://stn.wim.usgs.gov/fev/#Michael2018

FEMA US&R Data

NOTE: Change to how data is presented in the map portion of the dashboard. At small scale (zoomed out) the data is a heat map to show coverage area. At large scale (zoomed in) the data switches to the point view. This is because there are now around 30,000 points and the system simply can't draw all of them. There may be additional optimizations in how the data is viewed in the near future.
This data contains the data produced by the US&R teams under federal missions. It does not include the Florida US&R teams that are operating as state assets.

Public Feature Service:
http://fema.maps.arcgis.com/home/item.html?id=4d7f2b52371b43609647ed2447642626

Public Web Map:
http://fema.maps.arcgis.com/home/item.html?id=fddccae6aebf49aebfedbc96ab725fb4

Public Dashboard:

http://fema.maps.arcgis.com/apps/opsdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3

SW Georgia High-Res imagry using Digital Globe
http://fema.maps.arcgis.com/home/content.html?start=1&view=table&sortOrder=desc&sortField=modified#content

NASA JPL ARIA DPM products
https://maps.disasters.nasa.gov/arcgis/home/item.html?id=b0ebad883d854bf0bb7a5fdefcebd46d

FEMA USAR and IAFC / SUSAR
SAR Field Data Collection
https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=2

- FEMA (w/ human interaction redacted) **29,350 waypoints**
  Dashboard:
  http://fema.maps.arcgis.com/apps/opsdashboard/index.html#/bd137a8e6c2644b790ca4f37cd84a4d3
- SUSAR (all waypoints) **35,802 waypoints** and counting, LATF2, NOLA2, FLTF4, FLTF5 are currently actively adding points.
  Dashboard:
  https://iafc.maps.arcgis.com/apps/opsdashboard/index.html#/e904e84ffff344aeb4dfc2599d944afd

Remote Sensing
https://www.arcgis.com/apps/MapSeries/index.html?appid=61952ebf539f4bf1941a9e24e0bc277b&entry=6

- Justin Adams has posted more drone aerial imagery and Hangar360 panoramic images

NOAA Hx Michael Emergency Response Imagery Available 10/11/2018
Data were collected along the coast from Mobile Bay to St. George Island, FL and over Panama City, FL.
Viewer:
https://storms.ngs.noaa.gov/storms/michael/index.html#8/30.209/-85.611
WMTS:
https://storms.ngs.noaa.gov/storms/tilesj/services/tileserver.php/wmts
Mosaic TIFF:
https://ngsstormviewer.blob.core.windows.net/downloads/20181011a_RGB.tar
Raw JPEGS (may be suitable for SFM along the outer coast):
https://ngsstormviewer.blob.core.windows.net/downloads/20181011a_jpgs.tar

NASA Disasters GIS Portal:
https://maps.disasters.nasa.gov/arcgis/apps/PublicGallery/index.html?appid=026094d65f784548a0d46e0daeb8445f

FEMA Hurricane Journal and Map Services:
https://fema.maps.arcgis.com/apps/MapJournal/index.html?appid=97f53eb1c8724609ac6a0b1ae861f9b5

FEMA GIS Portal:
https://fema.maps.arcgis.com/apps/MinimalGallery/index.html?appid=6bd1d3fa669343eb87bf7a8a15f028c0

FEMA SFTP Public Data Site – Hurricane Michael:
https://disasters.geoplatform.gov/publicdata/NationalDisasters/HurricaneMichael/

NHC GIS Data:
https://www.nhc.noaa.gov/gis/

Send comments, additions, and corrections to:
Rebecca Kollmeyer
Federal Emergency Management Agency (FEMA) (New Light Technologies, Inc. (CTR))
Rebecca.kollmeyer@associates.fema.dhs.gov

If you would like to be on the distribution list to receive these documents, you can sign up here:

Remote Sensing and GIS Data for Disaster Community (RSGDC) Data Source Updates